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## **CLAIMS**

What is claimed is:

1	1.	A me	thod for locating an object device wirelessly communicating	
2	with at least one node, the method comprising:			
3		(a)	discovering the nodes wirelessly communicating with the	
4	object device	э;		
5		(b)	for each node wirelessly communicating with the object	
6	device, discovering a location of a coverage area for the node; and,			
7		(c)	discovering an area of location for the object device from	
8	the location of the coverage area for each node wirelessly communicating with			
9	the object device.			
1	2.	The n	nethod of claim 1 wherein discovering the nodes includes:	
2		(a)	querying nodes to discover devices wirelessly	
3	communicati	nunicating with each node;		
4		(b)	generating an index of devices wirelessly communicating	
5	with each no	with each node and the nodes to which each device is wirelessly		
6	communicati	ng;		
7		(c)	selecting the object device from the index; and,	
8		(d)	reading the index to discover the nodes wirelessly	
9	communicating with the object device.			
1	3.	The m	nethod of claim 1 wherein discovering the nodes includes	
2	querying nodes to discover whether the object device is wirelessly			
3	communicating with the nodes.			

The method of claim 1 wherein discovering the location of the

coverage area for each node wirelessly communicating with the object device

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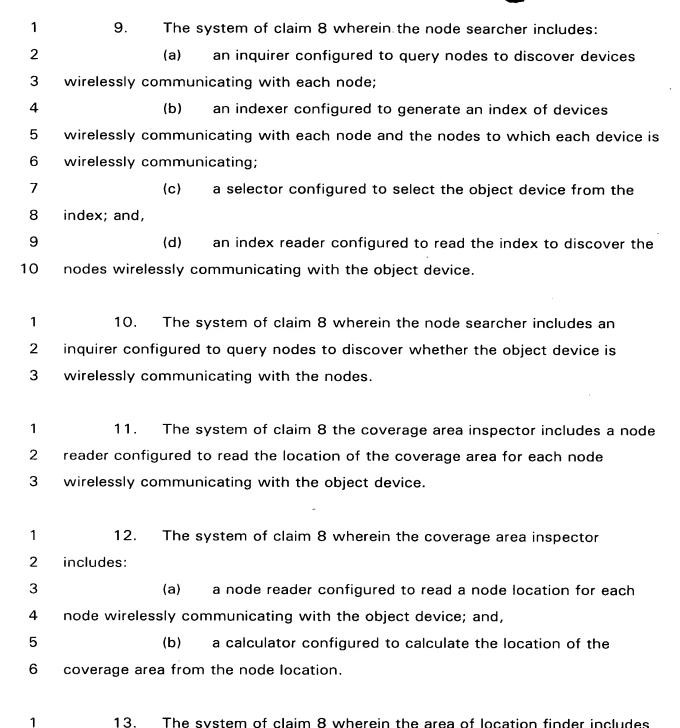
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- 3 includes reading the location of the coverage area for each node wirelessly
- 4 communicating with the object device.
- The method of claim 1 wherein discovering the location of the coverage area for each node wirelessly communicating with the object device includes:
- 4 (a) reading a node location for each node wirelessly communicating with the object device; and,
- 6 (b) calculating the location of the coverage area from the node 7 location.
- 1 6. The method of claim 1 wherein discovering the area of location for 2 the object device includes discovering a region common to the coverage areas 3 for each node communicating wirelessly with the object device.
- 7. The method of claim 1 wherein discovering the area of location for the object device includes discovering a region excluding the coverage areas for each node not communicating wirelessly with the object device.
- A system for locating an object device wirelessly communicating with at least one node, the system comprising:
  - (a) a node searcher configured to discover the nodes wirelessly communicating with the object device;
  - (b) a coverage area inspector configured to discover a location of a coverage area for the node for each node wirelessly communicating with the object device; and,
- 8 (c) an area of location finder configured to discover an area of
  9 location for the object device from the location of the coverage area for each
  10 node wirelessly communicating with the object device.

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13. The system of claim 8 wherein the area of location finder includes a mapper configured to discover a region common to the coverage areas for each node communicating wirelessly with the object device.

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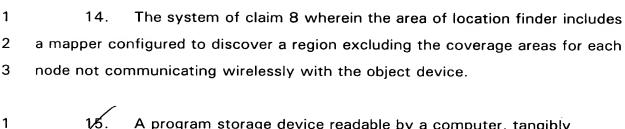
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- 15. A program storage device readable by a computer, tangibly embodying a program, applet or instructions executable by the computer to perform method steps for locating an object device wirelessly communicating with at least one node, the method steps comprising:
- 5 (a) discovering the nodes wirelessly communicating with the 6 object device;
- 7 (b) for each node wirelessly communicating with the object 8 device, discovering a location of a coverage area for the node; and,
  - (c) discovering an area of location for the object device from the location of the coverage area for each node wirelessly communicating with the object device.
- 1 16. The program storage device of claim 15 wherein the method step of discovering the nodes includes:
  - (a) querying nodes to discover devices wirelessly communicating with each node;
- (b) generating an index of devices wirelessly communicating
  with each node and the nodes to which each device is wirelessly
  communicating;
  - (c) selecting the object device from the index; and,
- 9 (d) reading the index to discover the nodes wirelessly 10 communicating with the object device.
  - 1 17. The program storage device of claim 15 wherein the method step 2 of discovering the nodes includes querying nodes to discover whether the object 3 device is wirelessly communicating with the nodes.

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- 1 18. The program storage device of claim 15 wherein the method step 2 of discovering the location of the coverage area for each node includes reading 3 the location of the coverage area for each node.
  - 19. The program storage device of claim 15 wherein the method step of discovering the area of location for the object device includes discovering a region common to the coverage areas for each node communicating wirelessly with the object device.
  - 20. The program storage device of claim 15 wherein the method step of discovering the area of location for the object device includes discovering a region excluding the coverage areas for each node not communicating wirelessly with the object device.